

FORM PTO-1449 (modified)
To: U.S. Department of Commerce
(PW FORM PAT-1449)
Patent and Trademark Office



Atty. Dkt. No.	C-M#	Client Ref.
	022212-0314856	SCI13290PCTUS
Applicant: Hellerbrand, et al.		
Appln. No.: 10/527,047		
Filing Date: November 15, 2005		
Examiner: Davis, Ruth A.		Art Unit: 1651

**INFORMATION DISCLOSURE STATEMENT
BY APPLICANT**

Date: September 23, 2009 Page 1 of 12

U.S. PATENT DOCUMENTS

Examiner's Initials*		Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
	A1	2003/0049328 A1	03/2003	Dalal et al.			
	A2	2003/0180376 A1	09/2003	Dalal et al.			
	A3	2002/0082679 A1	06/2002	Sirhan et al.			
	A4	2003/0009225 A1	01/2003	Khandkar et al.			
	A5	2003/0032586A1	02/2003	Rueger et al.			
	A6	5,266,683	11/1993	Oppermann et al.			
	A7	5,354,557	10/1994	Oppermann et al.			
	A8	5,468,845	11/1995	Oppermann et al.			
	A9	5,714,589	02/1998	Oppermann et al.			
	A10	5,863,758	01/1999	Oppermann et al.			
	A11	5,958,441	09/1999	Oppermann et al.			
	A12	6,071,695	06/2000	Ozkaynak et al.			
	A13	6,551,995 B1	04/2003	Oppermann et al.			
	A14	6,586,388 B2	07/2003	Oppermann et al.			
	A15	2003/0069401 A1	04/2003	Oppermann et al.			
	A16	5,344,654	09/1994	Rueger et al.			
	A17	5,610,021	03/1997	Rueger et al.			
	A18	5,011,691	04/1991	Oppermann et al.			
	A19	5,182,365	01/1993	Oppermann et al.			
	A20	5,324,819	06/1994	Oppermann et al.			

FOREIGN PATENT DOCUMENTS

Examiner's Initials*		Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract		Translation Readily Available	
						Enclosed	No	Enclosed	No
	B1	02/070029 A2	09/2002	WO	Dalal et al.				
	B2	02/070029 A3	09/2002	WO	Dalal et al.				
	B3	0197679 A2	12/2001	WO	Lally				
	B4	91/11148 A1	08/2001	WO	Andreassen et al.				
	B5	01/28605 A1	04/2001	WO	Lazarov et al.				
	B6	02/083188 A2	10/2002	WO	Norberg et al.				
	B7	03/003939 A1	01/2003	WO	Hall				
	B8	03/003937 A1	01/2003	WO	Hall				
	B9	99/11202 A1	03/1999	WO	Sarangapani et al.				
	B10	99/58167 A1	11/1999	WO	Despres et al.				

Examiner _____ Date Considered: _____

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 (modified)
To: U.S. Department of Commerce
(PW FORM PAT-1449)
Patent and Trademark Office

Atty. Dkt. No.	C-M#	Client Ref.
	022212-0314856	SCI13290PCTUS
Applicant: Hellerbrand, et al.		
Appln. No.: 10/527,047		
Filing Date: November 15, 2005		
Examiner: Davis, Ruth A.		Art Unit: 1651

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Date: September 23, 2009 Page 2 of 12

U.S. PATENT DOCUMENTS

Examiner's Initials*		Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
	A21	5,258,494	11/1993	Oppermann et al.			
	A22	5,750,651	05/1998	Oppermann et al.			
	A23	5,670,336	09/1997	Oppermann et al.			
	A24	6,261,835 B1	07/2001	Oppermann et al.			
	A25	5,814,604	09/1998	Oppermann et al.			
	A26	6,297,213 B1	10/2001	Oppermann et al.			
	A27	2003/0124169 A1	07/2003	Oppermann et al.			
	A28	4,975,526	12/1990	Kuberasampath et al.			
	A29	5,162,114	11/1992	Kuberasampath et al.			
	A30	5,171,574	12/1992	Kuberasampath et al.			
	A31	6,194,376 B1	02/2001	Kuberasampath et al.			
	A32	6,288,031 B1	09/2001	Kuberasampath et al.			
	A33	6,495,513 B1	12/2002	Rueger et al.			
	A34	2003/0104993 A1	06/2003	Rueger et al.			
	A35	2002/0049159 A1	04/2002	Rueger et al.			
	A36	6,506,729	01/2003	Rueger et al.			
	A37	2003/0109445 A1	06/2003	Rueger et al.			
	A38	6,211,146 B1	04/2001	Kuberasampath et al.			
	A39	6,022,853	02/2000	Kuberasampath et al.			
	A40	5,674,844	10/1997	Kuberasampath et al.			

FOREIGN PATENT DOCUMENTS

Examiner's Initials*		Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract		Translation Readily Available	
						Enclosed	No	Enclosed	No
	B11	93/16099 A2	08/1993	WO	Neidhardt et al.				
	B12	88/00205 A1	01/1988	WO	Wang et al.				
	B13	95/16035 A2	06/1995	WO	Celeste et al.				
	B14	95/16035 A3	06/1995	WO	Celeste et al.				
	B15	90/11366 A1	10/1990	WO	Wang et al.				
	B16	98/21972 A2	05/1998	WO	Paulista et al.				
	B17	98/21972 A3	05/1998	WO	Paulista et al.				
	B18	0 361 896 A2	04/1990	EP	Chu et al.				
	B19	94/15949 A1	07/1994	WO	Lee et al.	EP 0690871	(equival	ent)	
	B20	0 584 283 B1	12/1999	EP	Poser et al.				

Examiner Date Considered:

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 (modified)
To: U.S. Department of Commerce
(PW FORM PAT-1449)
Patent and Trademark Office

Atty.
Dkt. No.

C-M#

Client Ref.

022212-0314856

SCI13290PCTUS

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Applicant: Hellerbrand, et al.

Appln. No.: 10/527,047

Filing Date: November 15, 2005

Date: September 23, 2009

Page

3

of

12

Examiner: Davis, Ruth A.

Art Unit: 1651

U.S. PATENT DOCUMENTS

Examiner's Initials*		Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
	A41	6,333,312 B1	12/2001	Kuberasampath et al.			
	A42	6,531,445 B1	03/2003	Cohen et al.			
	A43	6,565,843 B1	05/2003	Cohen et al.			
	A44	5,652,118	07/1997	Ozkaynak et al.			
	A45	5,652,337	07/1997	Oppermann et al.			
	A46	5,854,071	12/1998	Oppermann et al.			
	A47	6,153,583	11/2000	Oppermann et al.			
	A48	6,395,883 B1	05/2002	Jones et al.			
	A49	5,834,179	11/1998	Jones et al.			
	A50	6,071,708	06/2000	Jones et al.			
	A51	2003/0105004 A1	06/2003	Jones et al.			
	A52	5,650,276	07/1997	Smart et al.			
	A53	5,707,810	01/1998	Smart et al.			
	A54	5,741,641	04/1998	Smart et al.			
	A55	5,994,131	11/1999	Smart et al.			
	A56	5,849,686	12/1998	Kuberasampath et al.			
	A57	5,656,593	08/1997	Kuberasampath et al.			
	A58	5,733,878	03/1998	Kuberasampath et al.			
	A59	5,739,107	04/1998	Cohen et al.			
	A60	5,972,884	10/1999	Cohen et al.			

FOREIGN PATENT DOCUMENTS

Examiner's Initials*		Document Number	Date MM/YYYY	Country	Inventor Name		English Abstract		Translation Readily Available	
							Enclosed	No	Enclosed	No
	B21	0 729 325 B1	11/2004	EP	Poser et al.					
	B22	95/13767 A1	05/1995	WO	Poser et al.	EP 0 729 325 A1	(equival	ent)		
	B23	0 812 207 B1	11/2000	EP	Charette et al.					
	B24	01/28603 A1	04/2001	WO	Li et al.	EP 1 220 693 A1	(equival	ent)		
	B25	1 223 990 B1	07/2004	EP	Kim et al.					
	B26	01/28602 A1	04/2001	WO	Kim et al.					
	B27	98/40113 A1	09/1998	WO	Wironen et al.	EP 0 984 797 A1	(equival	ent)		
	B28	00/45870 A1	08/2000	WO	Mckay	EP 1 150 725 A1	(equival	ent)		
	B29	1 150 726 B1	11/2003	EP	Mckay et al.					

Examiner

Date Considered:

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 (modified) To: U.S. Department of Commerce (PW FORM PAT-1449) Patent and Trademark Office	Atty. Dkt. No.	C-M# 022212-0314856	Client Ref. SCI13290PCTUS
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Applicant: Hellerbrand, et al.	
		Appln. No.: 10/527,047	
		Filing Date: November 15, 2005	
		Examiner: Davis, Ruth A.	Art Unit: 1651
Date: September 23, 2009 Page 4 of 12			

U.S. PATENT DOCUMENTS

Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
	A61	6,399,569 B1	Cohen et al.			
	A62	2003/0125230 A1	Cohen et al.			
	A63	6,077,823	Kuberasampath et al.			
	A64	6,090,776	Kuberasampath et al.			
	A65	5,108,436	Chu et al.			
	A66	4,596,574	Urist			
	A67	5,207,710	Chu et al.			
	A68	5,801,014	Lee et al.			
	A69	6,245,896 B1	Lee et al.			
	A70	2002/0165361 A1	Lee et al.			
	A71	5,290,763	Poser et al.			
	A72	5,371,191	Poser et al.			
	A73	5,563,124	Damien et al.			
	A74	2002/0009822 A1	Park			
	A75	2002/0082694 A1	McKay			
	A76	6,533,821 B1	Lally			
	A77	5,158,934	Ammann et al.			
	A78	5,409,896	Ammann et al.			
	A79	5,604,204	Ammann et al.			
	A80	5,422,340	Ammann et al.			

FOREIGN PATENT DOCUMENTS

Examiner's Initials*	Document Number	Date MM/YYYY	Country	Inventor Name	Class	English Abstract		Translation Readily Available	
						Enclosed	No	Enclosed	No
	B30	00/45871 A1	WO	McKay et al.	EP 1 150 726 A1	(equival	ent)		
	B31	0 679 097 B1	EP	Ammann et al.					
	B32	95/01760 A2	WO	Elia	EP 0 706 351 A1	(equival	ent)		
	B33	95/01760 A3	WO	Elia					
	B34	0 601 106 B1	EP	Kuberasampath et al.					
	B35	0 601 106 B2	EP	Kuberasampath et al.					
	B36	93/05751 A2	WO	Kuberasampath et al.	EP 0 601 135	A2 (equi	va lent)		
	B37	98/33514 A1	WO	Inagaki et al.	EP 0 972 520 A1	(equival	ent)		X
	B38	0 936 929 B1	EP	Lee et al.					

Examiner _____ Date Considered: _____

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 (modified) To: U.S. Department of Commerce (PW FORM PAT-1449) Patent and Trademark Office		Atty. Dkt. No.	C-M# 022212-0314856	Client Ref. SCI13290PCTUS	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Applicant: Hellerbrand, et al.			
		Appln. No.: 10/527,047			
		Filing Date: November 15, 2005			
		Examiner: Davis, Ruth A. Art Unit: 1651			
Date: September 23, 2009		Page	5	of	12

U.S. PATENT DOCUMENTS							
Examiner's Initials*		Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
	A81	5,397,235	03/1995	Elia			
	A82	5,676,976	10/1997	Lee et al.			
	A83	5,650,176	07/1997	Lee et al.			
	A84	5,683,461	11/1997	Lee et al.			
	A85	6,214,368 B1	04/2001	Lee et al.			
	A86	6,027,742	02/2000	Lee et al.			
	A87	6,331,312 B1	12/2001	Lee et al.			
	A88	6,132,463	10/2000	Lee et al.			
	A89	6,139,578	10/2000	Lee et al.			
	A90	6,277,151 B1	08/2001	Lee et al.			
	A91	6,544,290 B1	04/2003	Lee et al.			
	A92	6,541,037 B1	04/2003	Lee et al.			
	A93	2003/0082232 A1	05/2003	Lee et al.			
	A94	6,287,341 B1	09/2001	Lee et al.			
	A95	6,117,456	09/2000	Lee et al.			
	A96	2002/0155137 A1	10/2002	Lee et al.			
	A97	2002/0155167 A1	10/2002	Lee et al.			
	A98	2003/0049329 A1	03/2003	Lee et al.			
	A99	2002/0136692 A1	09/2002	Haroon et al.			
	A100	6,069,295	05/2000	Leitao			

FOREIGN PATENT DOCUMENTS							English Abstract		Translation Readily Available	
Examiner's Initials*		Document Number	Date MM/YYYY	Country	Inventor Name		Enclosed	No	Enclosed	No
	B39	WO98/16268 A2	04/1998	WO	Lee et al.	EP 0 939 929 A1	(equival	ent)		
	B40	WO98/16268 A3	04/1998	WO	Lee et al.					
	B41	96/36562 A1	11/1996	WO	Lee et al.	EP 0 825 963 A1	(equival	ent)		
	B42	00/72777 A1	12/2000	WO	Hall et al.	EP 1 196 110 A1	(equival	ent)		
	B43	00/72776 A1	12/2000	WO	Hall et al.	EP 1 191 901 A1	(equival	ent)		
	B44	00/72775 A1	12/2000	WO	Hall et al.	EP 1 191 900 A1	(equival	ent)		
	B45	0 806 211 B1	10/2002	EP	Leitao et al.					
	B46	0 806 212 A1	11/1997	EP	Leitao et al.					
	B47	0 806 212 B1	04/2003	EP	Leitao et al.					

Examiner	Date Considered:
----------	------------------

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 (modified)
 To: U.S. Department of Commerce
 (PW FORM PAT-1449)
 Patent and Trademark Office

Atty. Dkt. No.	C-M#	Client Ref.
	022212-0314856	SCI13290PCTUS

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Applicant: Hellerbrand, et al.
 Appln. No.: 10/527,047
 Filing Date: November 15, 2005
 Examiner: Davis, Ruth A. Art Unit: 1651

Date: September 23, 2009 Page 6 of 12

U.S. PATENT DOCUMENTS

Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
	A101	6,146,686	Leitao			
	A102	6,143,948	Leitao et al.			
	A103	6,136,369	Leitao et al.			
	A104	6,344,061 B1	Leitao et al.			
	A105	5,607,474	Athanasίου et al.			
	A106	5,876,452	Athanasίου et al.			
	A107	6,013,853	Athanasίου et al.			
	A108	6,328,765 B1	Hardwick et al.			
	A109	5,464,440	Johansson			
	A110	6,129,928	Sarangapani et al.			
	A111	6,261,322 B1	Depres, III et al.			
	A112	2002/0016635 A1	Depres, III et al.			
	A113	2003/0044596 A1	Lazarov et al.			
	A114	5,458,653	Davidson			
	A115	2002/0169066 A1	Cassidy et al.			
	A116	6,120,760	Hötten et al.			
	A117	6,197,550 B1	Hötten et al.			
	A118	4,877,864	Wang et al.			
	A119	5,108,922	Wang et al.			
	A120	6,432,919 B1	Wang et al.			

FOREIGN PATENT DOCUMENTS

Examiner's Initials*	Document Number	Date MM/YYYY	Country	Inventor Name		English Abstract		Translation Readily Available	
						Enclosed	No	Enclosed	No
	B48	0 625 891 B1	EP	Athanasίου et al.					
	B49	0 135 083 A2	EP	Reiser et al.					X
	B50	0 575 555 B1	EP	Cohen et al.					
	B51	0 623 031 B1	EP	Johansson et al.					
	B52	0 313 578 B1	EP	Wang et al.					
	B53	0 688 869 A1	EP	Wang et al.					
	B54	0 688 869 B1	EP	Wang et al.					
	B55	95/16035 A2	WO	Celeste et al.	EP 0 733 109	(equival	ent)		
	B56	95/16035 A3	WO	Celeste et al.	EP 0 733 109	(equival	ent)		
	B57	0 429 570 B1	EP	Wang et al.					

Examiner Date Considered:

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 (modified) To: U.S. Department of Commerce (PW FORM PAT-1449) Patent and Trademark Office		Atty. Dkt. No.	C-M# 022212-0314856	Client Ref. SCI13290PCTUS
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Applicant: Hellerbrand, et al.		
		Appln. No.: 10/527,047		
		Filing Date: November 15, 2005		
Date: September 23, 2009	Page	7	of	12
		Examiner: Davis, Ruth A.		Art Unit: 1651

U.S. PATENT DOCUMENTS

Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
	A121	6,177,406 B1	01/2001	Wang et al.		
	A122	5,116,738	05/1992	Wang et al.		
	A123	5,013,649	05/1991	Wang et al.		
	A124	5,618,924	04/1997	Wang et al.		
	A125	5,166,058	11/1992	Wang et al.		
	A126	5,631,142	05/1997	Wang et al.		
	A127	6,150,328	11/2000	Wang et al.		
	A128	6,245,889 B1	06/2001	Wang et al.		
	A129	5,106,748	04/1992	Wozney et al.		
	A130	5,543,394	08/1996	Wozney et al.		
	A131	5,635,373	06/1997	Wozney et al.		
	A132	5,939,388	08/1999	Rosen et al.		
	A133	5,187,076	02/1993	Wozney et al.		
	A134	5,459,047	10/1995	Wozney et al.		
	A135	5,849,880	12/1998	Wozney et al.		
	A136	6,207,813 B1	03/2001	Wozney et al.		
	A137	6,613,744 B2	09/2003	Wozney et al.		
	A138	5,366,875	11/1994	Wozney et al.		
	A139	5,141,905	08/1992	Rosen et al.		
	A140	6,027,919	02/2000	Celeste et al.		

FOREIGN PATENT DOCUMENTS

Examiner's Initials*	Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract		Translation Readily Available	
					Enclosed	No	Enclosed	No
	B58	1 254 956 A2	11/2002	EP	Wang et al.			
	B59	1 254 956 A3	11/2002	EP	Wang et al.			
	B60	0 372 031 B1	09/1996	EP	Opperman et al.			
	B61	0 723 013A2	07/1996	EP	Opperman et al.			
	B62	0 723 013A3	07/1996	EP	Opperman et al.			
	B63	0 723 013B1	07/1996	EP	Opperman et al.			
	B64	1 221 484 A2	07/2002	EP	Kuberasampath et al.			
	B65	1 221 484 A3	07/2002	EP	Kuberasampath et al.			
	B66	0 362 367 B1	02/1996	EP	Kuberasampath et al.			
	B67	1 225 225 A2	07/2002	EP	Kuberasampath et al.			

Examiner _____ Date Considered: _____

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 (modified)
To: U.S. Department of Commerce
(PW FORM PAT-1449)
Patent and Trademark Office

Atty.
Dkt. No.

C-M#

Client Ref.

022212-0314856

SCI13290PCTUS

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Applicant: Hellerbrand, et al.

Appln. No.: 10/527,047

Filing Date: November 15, 2005

Date: September 23, 2009

Page

8

of

12

Examiner: Davis, Ruth A.

Art Unit: 1651

U.S. PATENT DOCUMENTS

Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
	A141	5,658,882	08/1997	Celeste et al.		
	A142	6,284,872 B1	09/2001	Celeste et al.		
	A143	2002/0160494 A1	10/2002	Celeste et al.		
	A144	5,635,372	06/1997	Celeste et al.		
	A145	5,728,679	03/1998	Celeste et al.		
	A146	6,034,229	03/2000	Celeste et al.		
	A147	6,187,742 B1	02/2001	Wozney et al.		
	A148	5,177,406	01/1993	Troxell		
	A149	6,555,107 B2	04/2003	Poeschla et al.		
	A150	2003/0039636 A1	02/2003	Leboulch et al.		
	A151	6,423,544 B1	07/2002	Hardy		
	A152	5,681,746	10/1997	Bodner et al.		
	A153	2005/0002907 A1	01/2005	Mitrophanous et al.		
	A154	2001/0016347 A1	08/2001	Poeschla et al.		
	A155	6,365,150 B1	04/2002	Leboulch et al.		
	A156	6,730,297 B1	05/2004	Davidson et al.		
	A157	6,013,517	01/2000	Respass et al.		
	A158	2002/0037281 A1	03/2002	Davidson et al.		
	A159	2002/0068254 A1	06/2002	Johnston et al.		
	A160	2002/0082224 A1	06/2002	Jolly et al.		

FOREIGN PATENT DOCUMENTS

Examiner's Initials*	Document Number	Date MM/YYYY	Country	Inventor Name		English Abstract		Translation Readily Available	
						Enclosed	No	Enclosed	No
	B68	1 225 225 A3	07/2002	EP	Kuberasampath et al.				
	B69	0 714 665 B1	01/2003	EP	Kuberasampath et al.				
	B70	93/25246 A1	12/1993	WO	Kuberasampath et al.	EP0646022	A1 (equi	lv	alent)
	B71	0 448 704 B1	06/1998	EP	Oppermann et al.				
	B72	0 643 767 B1	07/1998	EP	Oppermann et al.				
	B73	0 411 105 B1	06/1665	EP	Kuberasampath et al.				
	B74	98/21972 A2	05/1998	WO	Paulista, et al.	See B16 for	English	eq	uivalent
	B75	98/21972 A3	05/1998	WO	Paulista, et al.	See B16 for	English	eq	uivalent
	B76	2001-50597	4/2001	JP	Paulista, et al.	See B16 for	English	eq	uivalent
	B77	97/31661	09/1997	WO	Lindholm et al.				

Examiner

Date Considered:

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 (modified)
To: U.S. Department of Commerce
(PW FORM PAT-1449)
Patent and Trademark Office

Atty.
Dkt. No.

C-M#

Client Ref.

022212-0314856

SCI13290PCTUS

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Applicant: Hellerbrand, et al.

Appln. No.: 10/527,047

Filing Date: November 15, 2005

Date: September 23, 2009

Page

9

of

12

Examiner: Davis, Ruth A.

Art Unit: 1651

U.S. PATENT DOCUMENTS

Examiner's Initials*		Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
	A161	2003/0003565 A1	01/2003	Dubensky, Jr. et al.			
	A162	2003/0104611 A1	06/2003	Johnston et al.			
	A163	2002/0048805 A1	04/2002	Johnston et al.			
	A164	5,385,887	01/1995	Yim et al.			
	A165	6,118,043	09/2000	Nies et al.			
	A166						
	A167						
	A168						
	A169						
	A170						
	A171						
	A172						
	A173						
	A174						
	A175						
	A176						
	A177						
	A178						
	A179						
	A180						

Examiner's Initials*		Document Number	Date MM/YYYY	Country	Inventor Name		English Abstract		Translation Readily Available	
							Enclosed	No	Enclosed	No
	B78	196 47 853	05/1998	DE	Paulista et al.					
	B79	94/15653	07/1994	WO	Ammann et al.					
	B80	98/51354	11/1998	WO	Rueger et al.					
	B81	98/34655	08/1998	WO	Rueger et al.					
	B82	2001-511042	08/2001	JP	Rueger et al. for Englis	h equivalent	see B81	X		

Examiner

Date Considered:

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 (modified) To: U.S. Department of Commerce (PW FORM PAT-1449) Patent and Trademark Office		Atty. Dkt. No.	C-M# 022212-0314856	Client Ref. SCI13290PCTUS
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Applicant: Hellerbrand, et al.		
		Appln. No.: 10/527,047		
		Filing Date: November 15, 2005		
Date: September 23, 2009 Page <u>10</u> of <u>12</u>		Examiner: Davis, Ruth A. Art Unit: 1651		

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)		English Abstract		Translation Readily Available	
Examiner's Initials*		Enclosed	No	Enclosed	No
	C1 Weng et al., "Bone Regeneration around Implants with Bone Growth Factor rhGDF-5", <i>J. Dent. Res.</i> , 2003; 82 (Special Issue b): 377, Abstract # 2943				
	C2 Ludwig et al., "GDF-5 coated beta-TCP in sinus augmentation in minipigs", <i>Int. J. Oral Maxillofac. Surg.</i> , 2003; 32 (Supplement 1): S55, Abstract O26.9				
	C3 Wolfman et al., "Ectopic Induction of Tendon and Ligament in Rats by Growth and Differentiation Factors 5, 6, and 7, Members of the TGF- β Gene Family", <i>J. Clin. Invest.</i> , 1997; 100(2): 321-330				
	C4 GenBank Accession Number NP_00548, (GI:4503969). Growth differentiation factor 5 preproprotein; cartilage-derived morphogenetic protein-1 [<i>Homo sapiens</i>]. Last modified December 20, 2003.				
	C5 GenBank Accession Number P43026 (GI:20141384). Growth/differentiation factor 5 precursor (GDF-5); cartilage-derived morphogenetic protein 1 (CDMP-1). Last modified June 15, 2004.				
	C6 GenBank Accession Number JC2347 (GI:631181). Growth/differentiation factor 5-human. Last modified March 17, 2000.				
	C7 GenBank Accession Number CAA56874 (GI:671525). Gdf5 [<i>Homo sapiens</i>]. Last modified February 24, 1995.				
	C8 GenBank Accession Number AAH32495 (GI:22749747). GDF5 protein [<i>Homo sapiens</i>]. Last modified October 7, 2003.				
	C9 GenBank Accession Number CAB89416 (GI:7671666). Growth differentiation factor 5; cartilage-derived morphogenetic protein-1 [<i>Homo sapiens</i>]. Last modified April 11, 2001.				
	C10 Alam et al.; Evaluation of ceramics composed of different hydroxyapatite to tricalcium phosphate ratios as carriers for rhBMP-2; <i>Biomaterials</i> vol. 22; 2001; p. 1643-1651				
	C11 Ripamonti, U., et al., Induction of Bone Formation by Recombinant Human Osteogenic Protein-1 and Sintered Porous Hydroxyapatite in Adult Primates, <i>Plast. Reconstr. Surg.</i> 107:977-988 (2001)				
	C12 Celeste, A.J., et al., Identification Of Transforming Growth Factor Beta Family Members Present In Bone-Inductive Protein Purified From Bovine Bone, <i>Proc. Natl. Acad. Sci. U.S.A.</i> , 87(24):9843-9847 (1990)				

Examiner	Date Considered:
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.	

FORM PTO-1449 (modified)
To: U.S. Department of Commerce
(PW FORM PAT-1449)
Patent and Trademark Office

Atty.
Dkt. No.

C-M#

Client Ref.

022212-0314856

SCI13290PCTUS

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Applicant: Hellerbrand, et al.

Appln. No.: 10/527,047

Filing Date: November 15, 2005

Date: September 23, 2009

Page

11

of

12

Examiner: Davis, Ruth A.

Art Unit: 1651

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

English

Translation

Examiner's

Abstract

Readily

Initials*

Enclosed

No

Enclosed

No

C13

Chang, S.C., et al., Cartilage-Derived Morphogenetic Proteins. New Members Of The Transforming Growth Factor-Beta Superfamily Predominantly Expressed In Long Bones During Human Embryonic Development, J. Biol. Chem. 269(45):28227-2823 (1994)

C14

EMEA. ICH Topic Q 3 C - Impurities: Residual Solvents. 1-19. 1997. Ref Type: Generic

C15

Friess,W., et al., Bone Regeneration With Recombinant Human Bone Morphogenetic Protein-2 (Rhbmp-2) Using Absorbable Collagen Sponges (ACS): Influence Of Processing On ACS Characteristics And Formulation, Pharm. Dev. Technol. 4(3):387-96 (1999)

C16

Gao,T., et al., Composites Of Bone Morphogenetic Protein (BMP) And Type IV Collagen, Coral-Derived Coral Hydroxyapatite, And Tricalcium Phosphate Ceramics, Int. Orthop., 20(5):321-325 (1996)

C17

Gombotz,W.R., et al., Stability, Characterization, Formulation, And Delivery System Development For Transforming Growth Factor-Beta 1. In Formulation, Characterization, and Stability of Protein Drugs New York and London, 1996; Vol. 9, 219-45

C18

Griffith,D.L., et al., Three-Dimensional Structure Of Recombinant Human Osteogenic Protein 1: Structural Paradigm For The Transforming Growth Factor Beta Superfamily, Proc Natl Acad Sci U.S.A., 93(2):878-883 (1996)

C19

Hotten,G., et al., Cloning And Expression Of Recombinant Human Growth/Differentiation Factor 5, Biochem. Biophys. Res. Commun., 204(2):646-652 (1994)

C20

Hotz,G., et al., Bone Substitute With Osteoinductive Biomaterials--Current And Future Clinical Applications, Int. J. Oral Maxillofac. Surg., 23(6 Pt 2):413-417 (1994)

C21

Katagiri,T., et al., The Non-Osteogenic Mouse Pluripotent Cell Line, C3H10T1/2, Is Induced To Differentiate Into Osteoblastic Cells By Recombinant Human Bone Morphogenetic Protein-2., Biochem. Biophys. Res. Commun., 172(1):295-299 (1990)

C22

Lind, M., et al., Transforming Growth Factor-Beta 1 Enhances Bone Healing To Unloaded Tricalcium Phosphate Coated Implants: An Experimental Study In Dogs, J. Orthop. Res., 14(3):343-350 (1996)

C23

Lind,M., Growth Factors: Possible New Clinical Tools. A Review, Acta. Orthop. Scand., 67(4):407-17 (1996)

Examiner

Date Considered:

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 (modified) To: U.S. Department of Commerce (PW FORM PAT-1449) Patent and Trademark Office		Atty. Dkt. No.	C-M# 022212-0314856	Client Ref. SCI13290PCTUS
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Applicant: Hellerbrand, et al.		
		Appln. No.: 10/527,047		
		Filing Date: November 15, 2005		
		Examiner: Davis, Ruth A. Art Unit: 1651		
Date: September 23, 2009 Page 12 of 12				
OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)		English Abstract		Translation Readily Available
Examiner's Initials*			Enclosed No	Enclosed No
	C24	Nishitoh, H., et al., Identification Of Type I And Type II Serine/Threonine Kinase Receptors For Growth/Differentiation Factor-5, J. Biol. Chem., 271(35):21345-21352 (1996)		
	C25	Ozkaynak, E., et al., OP-1 cDNA Encodes An Osteogenic Protein In The TGF-Beta Family, The Embo. J., 9(7):2085-2093 (1990)		
	C26	Scheufler, C., et al., Crystal Structure Of Human Bone Morphogenetic Protein-2 At 2.7 A Resolution, J. Mol. Biol., 287(1):103-115 (1999)		
	C27	Schmitt, J., et al., Bone Morphogenetic Proteins: An Update On Basic Biology And Clinical Relevance, J. Orthop. Res., 17:269-278 (1999)		
	C28	Spiro, R.C., et al., Spinal Fusion With Recombinant Human Growth And Differentiation Factor-5 Combined With A Mineralized Collagen Matrix, The Anatomical Record, 263:388-395 (2001)		
	C29	Storm, E.E., et al., GDF5 Coordinates Bone And Joint Formation During Digit Development, Dev Biol, 209 (1), 11-27 (1999)		
	C30	Terheyden, H., et al., Recombinant Human Osteogenic Protein 1 In The Rat Mandibular Augmentation Model: Differences In Morphology Of The Newly Formed Bone Are Dependent On The Type Of Carrier, Mund Kiefer Gesichtschir., 1:272-275 (1997)		
	C31	Wozney, J.M., et al., Bone Morphogenetic Protein And Bone Morphogenetic Protein Gene Family in Bone Formation and Repair, Clin. Orthop, 346:26-37 (1998)		
	C32	Wozney, J.M., et al., Novel Regulators Of Bone Formation: Molecular Clones And Activities. Science, 242(4885):1528-1534 (1988)		
	C33	Baldwin, R.L., et al., How Hofmeister Ion Interactions Affect Protein Stability, Biophysical Journal, 71:2056-2063 (1996)		
	C34			
Examiner		Date Considered:		
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.				